No.



8300002

THE UNIVERD SHAMES OF ANDERSION

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Talkereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, MPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT TY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT

SOYBEAN

'FFR 560'

In Ecstimony Wincrest, I have hereunto set my hand and caused the seal of the Plant Variety Erotection Office to be affixed at the City of Washington this 27th day of January in the year of our Lord one thousand nine hundred and eighty-four.

John R Blook Secretary of Agriculture

Allesk

Klasseth H. Evans Commissioner Plant Variety Protection Off

Grain Division Agricultural Marketina Service

AGHICULTURAL MARKETING	U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE			
APPLICATION FOR PLANT VARIFTY PROTECTION CERTIFICATE			FORM APPROVED: OMB NO. 05 No certificate for plant variety promay be issued unless a complete cation form has been received ()	
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNAT	553	/ARIETY NAME	
FFR Cooperative	S-8102		koj pre likuriga.	
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip C		,	FFR 560 FOR OFFICIAL USE ONLY	
4112 E. State Road 225 West Lafayette, Indiana 47906	(317) 567-21	PVF	8300002	
6. GENUS AND SPECIES NAME 7. FAMILY	NAME (Botanical)		DATE	
Glycine max Le	guminosae	FILING	10/18/82_ TIME 2:00 \(\text{A.M. } \(\text{X} \)	
8. KIND NAME	9. DATE OF DETERMINATION		AMOUNT FOR FILING	
Soybeans	December, 1981	RECEIVED	S_ 560. 00 DATE 10/18/82	
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FO partnership, association, etc.)	ORM OF ORGANIZATION (Corpora	FEES REC	AMOUNT FOR CERTIFICA	
Corporation			1/9/84	
1. IF INCORPORATED, GIVE STATE OF INCORPORATION WISCONSIN		12. !	12. DATE OF INCORPORATION	
	(501) 684-	7377		
	MITTED	ve Descript	ion of the Variety (Request fo	
Weiner, Arkansas 72479 4. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUE 5. CVI. Exhibit A, Origin and Breeding History of the Verient (See	c. \(\times\) Exhibit C, Object from Plant Variet	ve Descript v Protection	ion of the Variety (Request for Office.)	
Weiner, Arkansas 72479 4. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUE a. X Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.) b. X Exhibit B, Novelty Statement 5. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS V. SEED? (See Section 83(a) of the Plant Variety Protection Act.)	c. X Exhibit C, Object from Plant Variet d. X Exhibit D, Additi ARIETY BE SOLD BY VARIETY N Yes (If "Yes," ans	ve Descript y Protection onal Descrip	otion of the Variety AS A CLASS OF CERTIFIE	
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INSTRUCTIONS

General: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Department of Agriculture, Agricultural Marketing Service, Livestock, Meat, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

Item

- 9 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 14c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- If "Yes" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "No," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

APR 26 1903

ORIGIN AND BREEDING HISTORY OF THE VARIETY

FFR $_7$ 560 was a single F_3 plant selected from the cross D69-8001 x SB168 in 1977. This single plant produced 48 grams of seed in Fisher, Arkansas. The F_3 seed was entered in a preliminary screening trial in Millington, Tennessee, in 1978. Seed yield was 1630 grams/20' row vs. 1382 grams for Bedford. This location was high in race #4 cyst nematodes.

Advanced yield trails were conducted in 1979, 1980, and 1981. This data is submitted below. Seed increase was started in 1980, and sufficient seed was produced in 1981 at Weiner and Fisher, Arkansas, to start commercial production and sales in 1982 and 1983.

YIELD SUMMARY
(Figures given in 1bs/380' row)

VARIETY R15	FISHER	9 WYNNE	TEXAS	1980 ARK.	KY.	TEXAS	1981 ARK.	GA.
FFR/560	46	50	45	36	42	80	44	43
Forrest	48	40	· · · · · · · · · · · · · · · · · · ·	47	41	85	50	34

This line was increased in 1980 and 1981 to a commercial stage. This line was rogued for phenotypic offtypes. A low frequency (.04%) of brown hila offtypes are inherent in this variety and control of foundation seed will be important for this variant.

Exhibit A (con't)

The aforementioned offtypes are predictable and commercially accepted in this variety.

Stability of the variety can be maintained and reproduced without changing the characteristics. Three generations of this variety have been judged for uniformity and stability.

NOVELTY STATEMENT

 $R \not = S$ FFR $\not = S$ novel in the following characterist.

1. FFR/560 is resistant to race #4 cyst and highly tolerant to race #3 cyst nematode. Forrest is susceptible to race #4 and resistant to race #3.

1981 Arkansas greenhouse readings by Dr. Robert Riggs as follows:

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

(Soybean)

EXHIBIT C

8300002

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

· ·	
TEMPORARY DESIGNATION	VARIETY NAME
S-8102	FFR 560
) 906	FOR OFFICIAL USE ONLY PVPO NUMBER
ety in the features described b place a zero in the first box wl	below. When the number of significant digits then number is 9 or less (e.g., $\boxed{0}$ $\boxed{9}$).
	L/W ratio > 1.2; L/T ratio = < 1.2) L/T ratio > 1.2; T/W > 1.2)
4 = Black 5 = Other (Specify)
y'; 'Gasoy 17')	
l = Gray 5 = Imperfect Blac	ck 5 = Black 7 = Other (Specify)
bronze band below cotyledons (" 'Coker Hampton 266A')	Woodworth'; 'Tracy')
4 = Other (Specify)	
	S - 8102 2006 lety in the features described by place a zero in the first box where the place a zero in the first box where

11. LEAF	LET SIZE:		
2	1 = Small ('Amsoy 71'; 'A5312') 3 = Large ('Crawford'; 'Tracy')	2 = Medium ('Corsoy 79'; 'Gasoy 17')	
2			
) 12. LEAF	COLOR:		
O N [2.]	1 = Light Green ('Weber'; 'York') 3 = Dark Green ('Gnome'; 'Tracy')	2 = Medium Green ('Corsoy 79'; 'Braxton')	
13. FLOW	ER COLOR:		
	1 = White 2 = Purple	3 = White with purple throat	
14. POD C	OLOR:		
	1 = Tan 2 = Brown	3 = Black	
15. PLAN	PUBESCENCE COLOR:		10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2	1 = Gray 2 = Brown (Tawny)	기 : 그는 그리고 말하는 그 그들을 되는 것이다. 이 그는 그리고 있다고 있는 그 그리고 있다.	
16. PLANT	TYPES:		
3	1 = Slender ('Essex'; 'Amsoy 71') 3 = Bushy ('Gnome'; 'Govan')	2 = Intermediate ('Amcor', 'Braxton')	
33.50 F			
17. PLANT	1 = Determinate ('Gnome'; 'Braxton') 3 = Indeterminate ('Nebsoy'; 'Improved Pelic	2 ≐ Semi-Determinate ('Will') can')	
18. MATUI	1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = VIII	4 = I 5 = H 6 = HI 7 = IV 12 = IX 13 = X	8 = V
19. DIȘEAS	E REACTION: (Enter 0 = Not Tested; 1 = Su	sceptible; 2 = Resistant)	
	ERIAL DISEASES:	사용 등 경기 전환 경험	
	Bacterial Pustule (Xanthomonas phaseoli var.	sojensis)	
لط	Bacterial Blight (Pseudomonas glycinea)		
[2]	Wildfire (Pseudomonas tabaci)		
FUNGA	L DISEASES:		
0	Brown Spot (Septoria glycines)		
	Frogeye Leaf Spot (Cercospora sojina)	1 (1 <u>1-11)</u>	
2	Race 1 Race 2 Race	Race 4 Race 5 Oth	er <i>(Specify)</i>
2	Target Spot (Corynespora cassiicola)		
	Downy Mildew (Peronospora trifoliorum var. I	manshurica)	
لكا			
	Powdery Mildew (Microsphaera diffusa)		

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19. DISEASE RE	ACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 =	Resistant) (Continued)	
	DISEASES: (Continued)		
O Pod	and Stem Blight (Diaporthe phaseolorum var; sojae)		
0 Purp	le Seed Stain <i>(Cercospora kikuchii)</i>		
0 Rhiz	octonia Root Rot (Rhizoctonia solani)		
Phyt	ophthora Rot (Phytophthora megasperma var. sojae)		를 하는 사람들은 등을 가능하는데 하는데 다른데 다른데 다른데 다른데 다른데 다른데 다른데 다른데 다른데 다른
2 Race	1 2 Race 2 Race 3	Race 4 Race 5	Race 6 Race 7
Race	8 Race 9 Other (Specify)		
VIRAL DIS	FASES:		
0 Bud i	Blight (Tobacco Ringspot Virus)		
Yello	w Mosaic (Bean Yellow Mosaic Virus)		현수는 경기로 발표하면 보고 있어요. 그런데 다 있어, 소프로 보고 있는데 그 사람들이 되었다.
O Cowp	ea Mosaic (Cowpea Chlorotic Virus)		
O Pod A	Mottle (Bean Pod Mottle Virus)		
O Seed NEMATODI	Mottle (Soybean Mosaic Virus)		시대 중요 : 그는 이 전 시간 등에 등하는 것이 되었습니다. 요즘에 하는 소리에서 한 대한 사람들이 되었습니다. 나를 보다
	DISEASES:		
Soybe	ean Cyst Nematode (Heterodera glycines)		
O⊆ Race	1 Race 2 2 Race 3 2	Race 4 Other (Spacify)
O Lance	Nematode (Hopiolaimus Colombus)		
0 South	ern Root Knot Nematode (Meloidogyne incognita)		
0 North	ern Root Knot Nematode (Meloidogyne Hapla)		
0 Peanu	t Root Knot Nematode (Meloidogyne arenaria)		
0 Renife	orm Nematode (Rotylenchulus reniformis)		
OTHE	R DISEASE NOT ON FORM (Specify):		
00 0170101001			
	AL RESPONSES: (Enter 0 = Not Tested; 1 = Suscept	tible; 2 = Resistant)	
	hlorosis on Calcareous Soil		
	(Specify)	л.	
	TION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Re	sistant)	
	an Bean Beetle (Epilachna varivestis)		
	Leaf Hopper (Empoasca fabae)		생산과 경찰 그는 그는 것은
	(Specify)		
	ICH VARIETY MOST CLOSELY RESEMBLES THA	T SUBMITTED.	
CHARACTEF Plant Shape		CHARACTER	NAME OF VARIETY
Leaf Shape	Forrest Forrest	Seed Coat Luster Seed Size	Forrest
Leaf Color	Forrest	Seed Shape	
Leaf Size	Forrest	Seedling Pigmentation	D69-8001 Forrest

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF PLANT DAYS LODGING		CM PLANT	LEAFLET SIZE		SEED CONTENT		SEED SIZE '	NO. SEEDS/
MA	MATURITY	SCORE	E HEIGHT	CM Width	CM Length	% Protein	% Oil	SEEDS	POD
Submitted	150	1.8	89				•		
Forrest Name of Similar Variety	150	1.8	91						

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

Exhibit D

ADDITIONAL DESCRIPTION OF THE VARIETY

ICS Pl/type	dt.	o t
LICS P1/		
PLANT CHARACTERISTICS	2.0	4.0
CHARA Sh.	. 57	1.5 4.0
PLANT Ht. Lod.	35" 1.8 1.5 2.0	36" 1.8
	35 =	36"
Maturity Group	>	>
Pub.	Tawny	ite Tawny
Flower Color	White	White
Pod	Tan	Tan
Variety of	FFR/560	Forrest

R/2 FFR/560 is a medium tall determinate variety in the group V maturity. In phenotype, Seed is dark yellow with it resembles Forrest, white flowers, tawny pubscence. large dark hila.